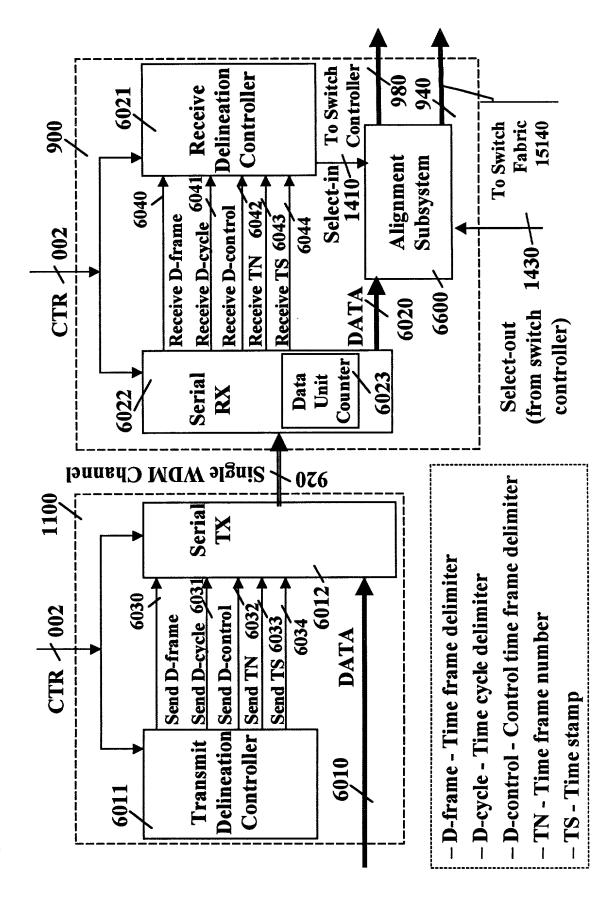
FIG. 1

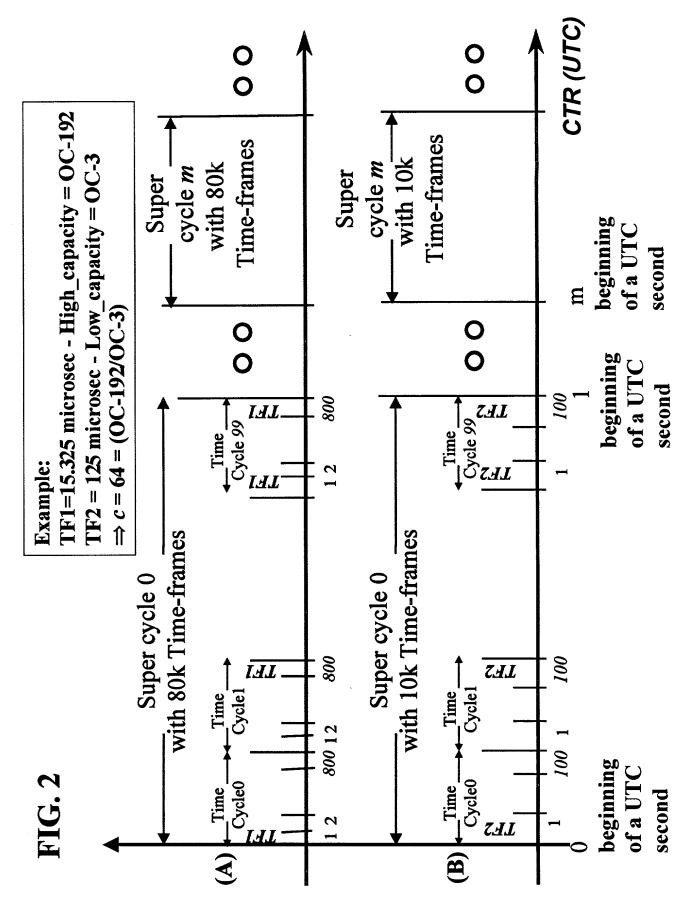


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OFEK ET AL.

OFEK ET AL.

\*PATEUT APPLICATION\*

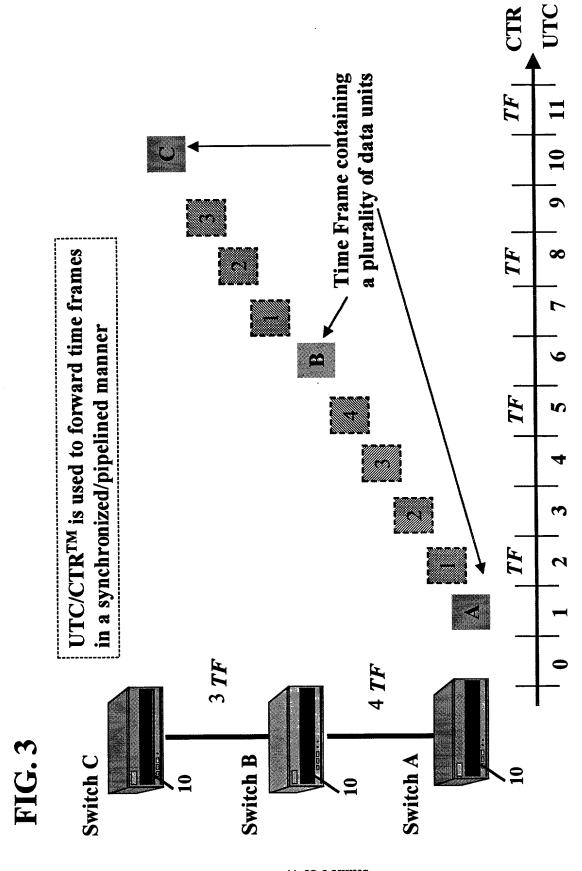


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ATTORNEY DOCKET NO.: SYN 1781

OFEK ET AL.

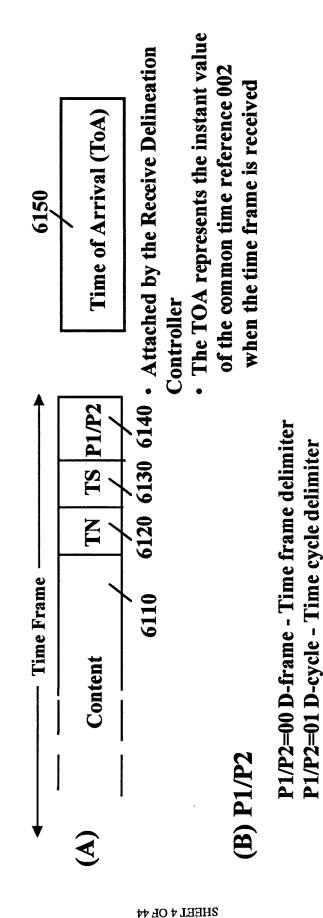
\*PATENT APPLICATION\*



\*PATENT APPLICATION\*

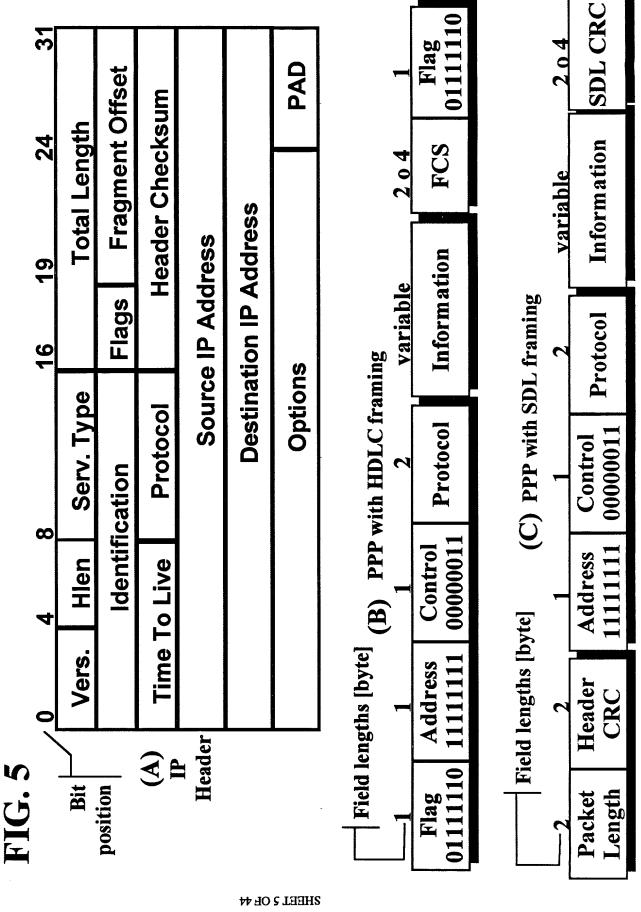
SHEET 3 OF 44

SHEET 3 OF 44



\*PATTORNEY DOCKET NO.: SYN 1781 OFEK ET AL. \*PATENT APPLICATION\* TN - Time frame number TS - Time stamp

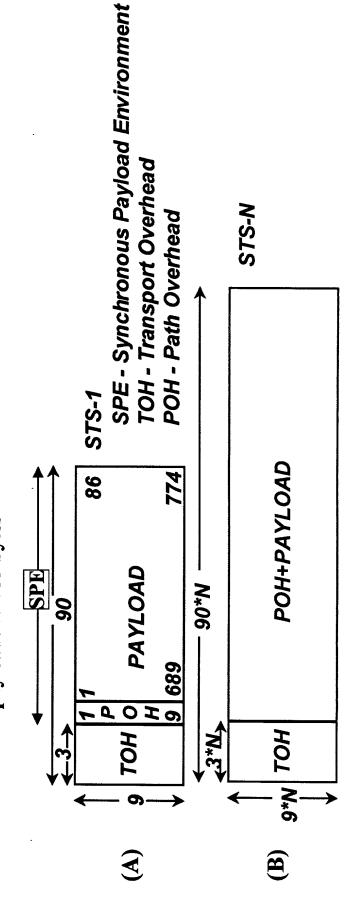
P1/P2=10 D-control - Control time frame delimiter



\*PATENT APPLICATION\*

\*PATENT APPLICATION\*

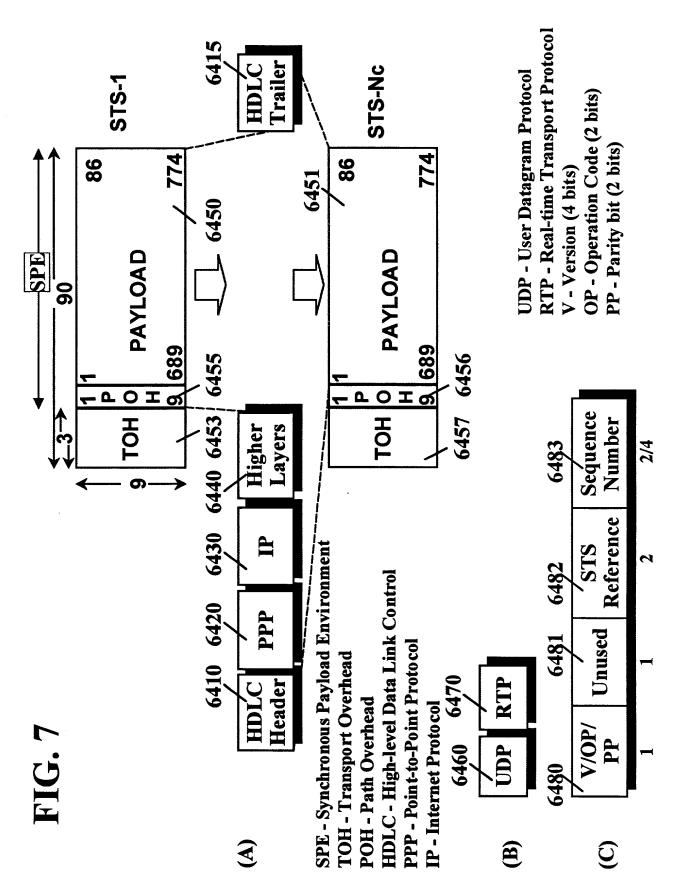
- SONET synchronous optical network
- Multiplexing method: byte interleaving
- Signal hierarchy: OC-N (STS-N)
- STS-N rate: N\*51.84 Mb/s
- Frame format: 9 rows by 90\*N columns
- capacity: N\*810 bytes in 125 microsecond.
- overhead: N\*27 bytes
- payload: N\*783 bytes



SHEEL 0 OF 44

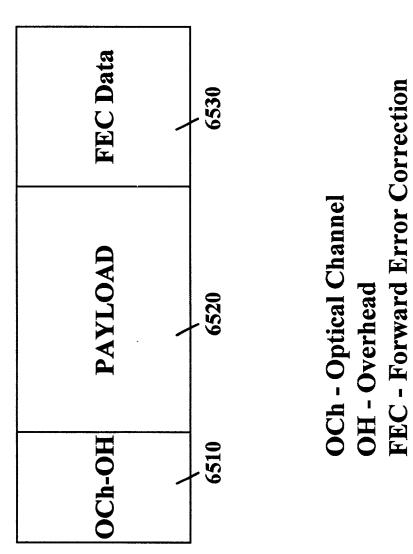
OFEK ET AL.

\*PATENT APPLICATION\*



\*PATENT APPLICATION\*

\*PATENT APPLICATION\*



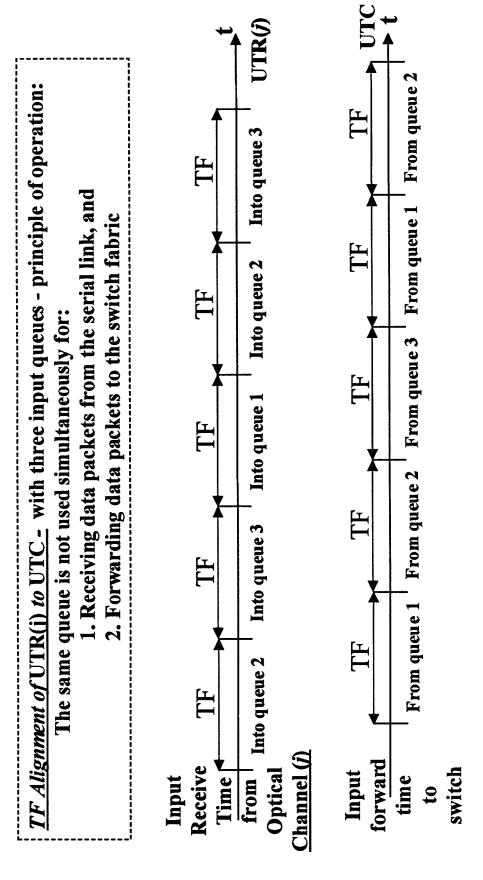
\*PATENT APPLICATION\*

OFEK ET AL.

OFEK ET AL.

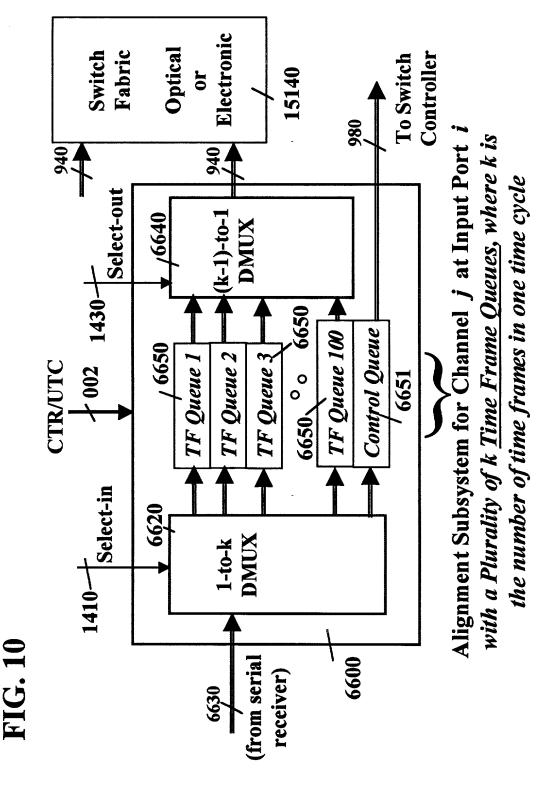
\*PATENT APPLICATION\*

FIG. 9



\*PATENT APPLICATION\*

\*PATENT APPLICATION\*



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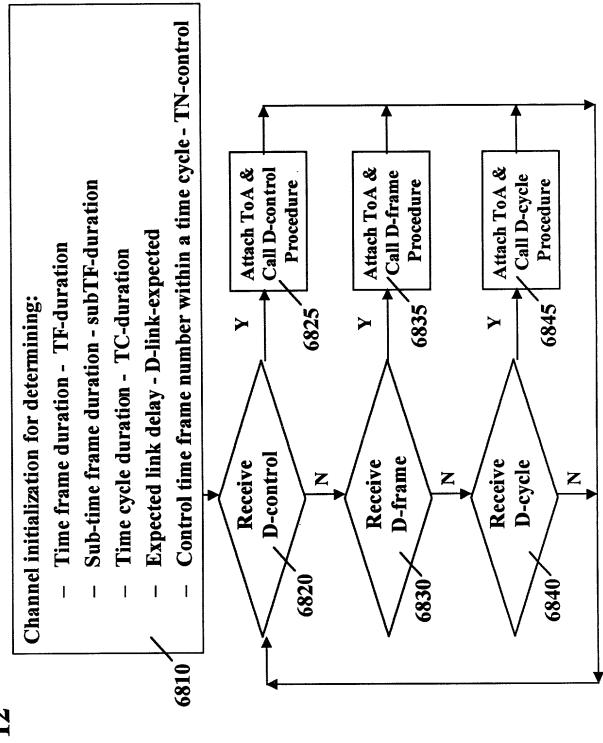
\*PATENT APPLICATION\*

Maximum alignment subsystem requirements for local recovery from arbitrary timing failure:

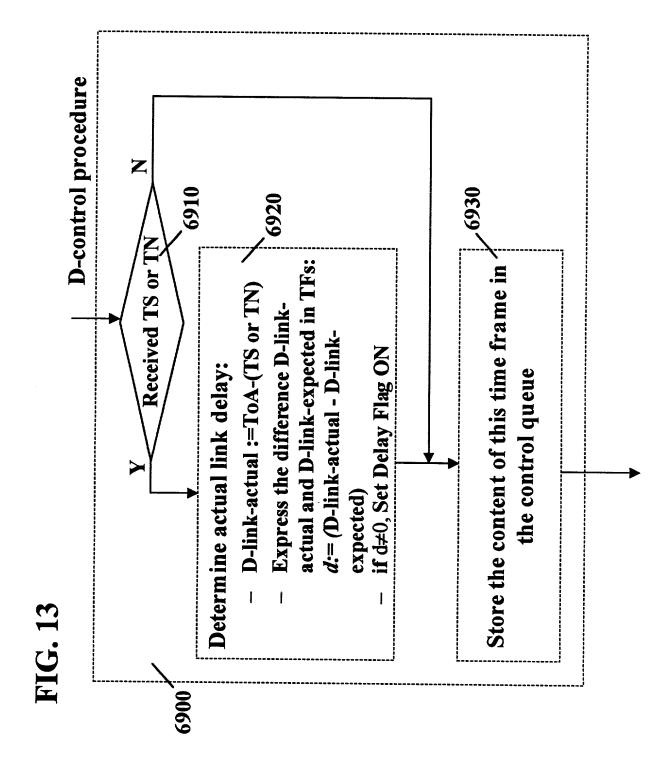
should be sent every time frame and/or time cycle. - For immediate recovery a time measurement time stamp

Time	OC-48-2.4	OC-192 – 9.6
Cycle	Gb/s	Gb/s
1 ms	0.3 MByte	1.2 MByte
2 ms	0.6 MByte	2.4 MByte
4 ms	1.2 MByte	4.8 MByte
10 ms	3 MByte	12 MByte
20 ms	6MByte	24 MByte

#### \*PATENT APPLICATION\* OPEK ET AL. OPEK ET AL.

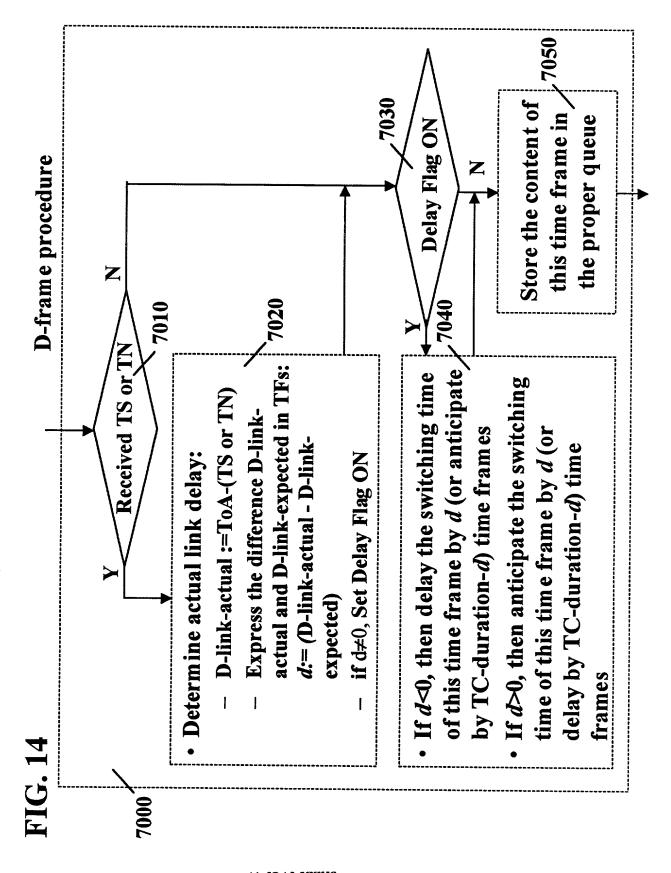


SHEEL 15 OF 44
OPEK ET AL.
OPEK ET AL.
\*PATENT APPLICATION\*



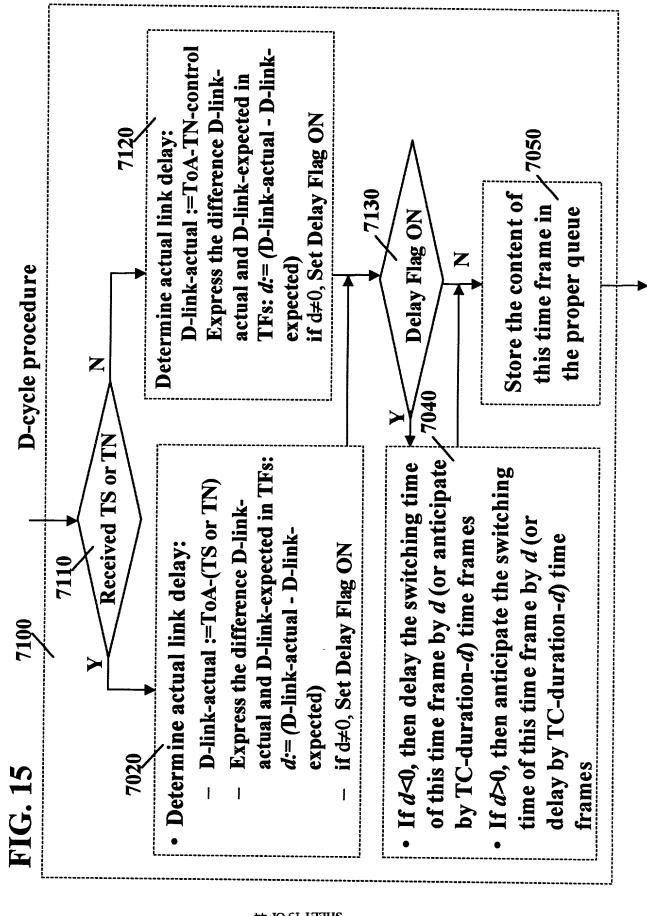
\*PATENT APPLICATION\*

\*PATENT APPLICATION\*

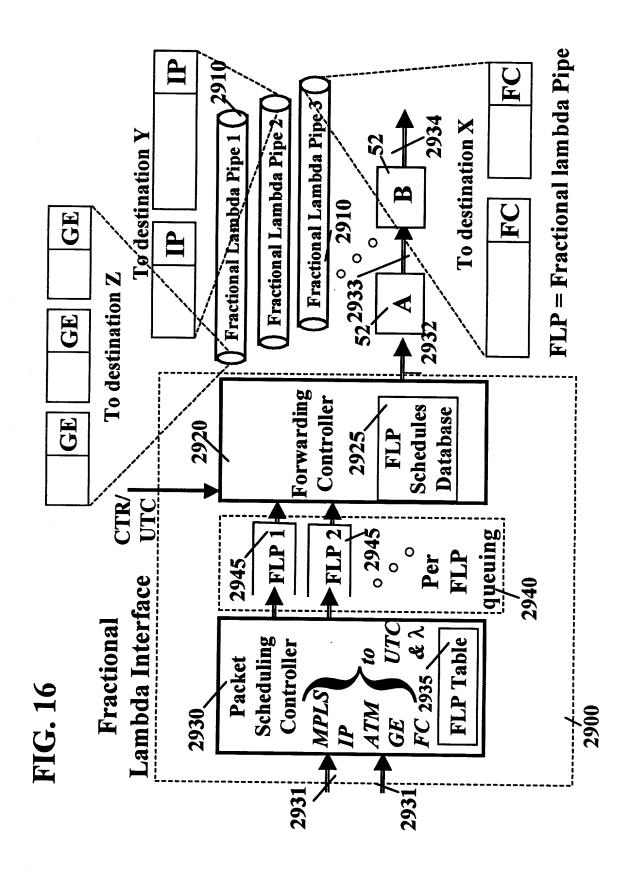


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\*PATENT APPLICATION\*



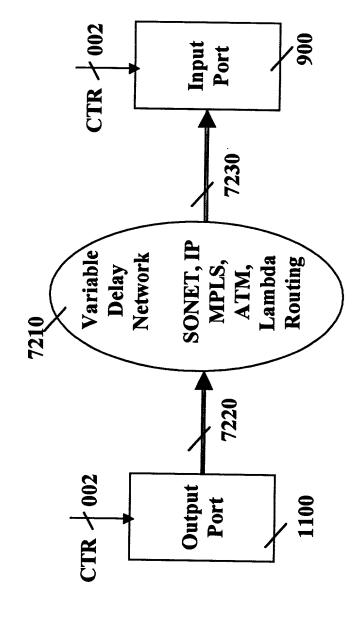
2HEEL 12 OE 44
VLLOKNEK DOCKEL NO: 2KN 1181
OEK EL VT.
\*FYLENL VEHICYLON\*



\*PATENT APPLICATION\*

OFEK ET AL.

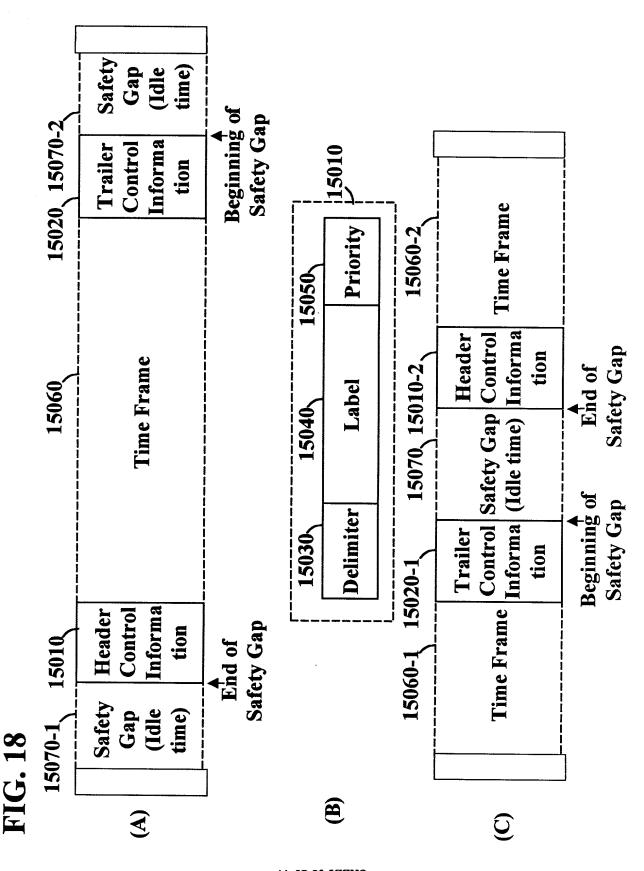
OFEK ET AL.



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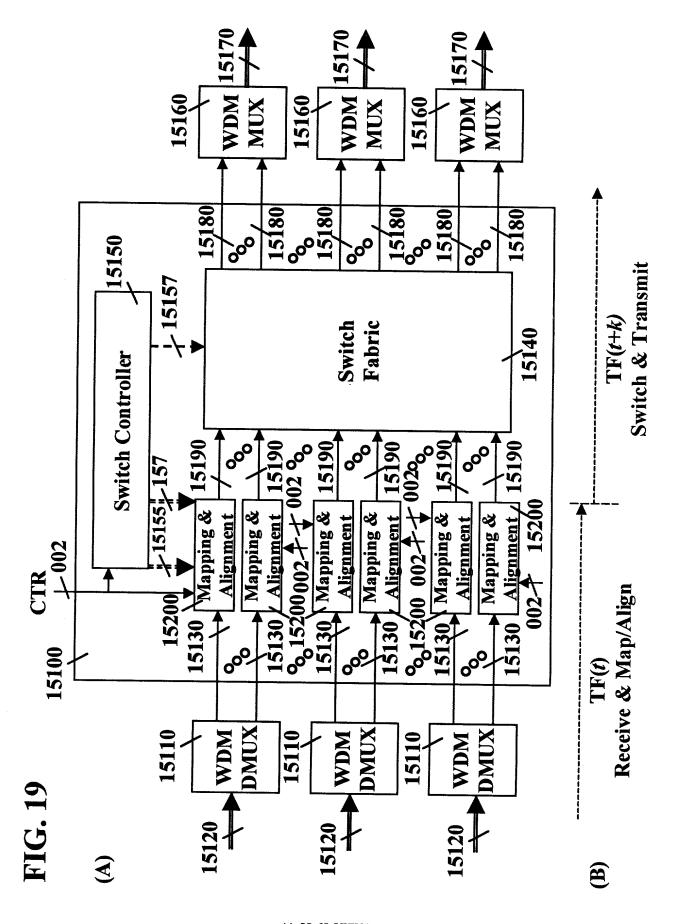
\*PATENT APPLICATION\*

\*PATENT APPLICATION\*



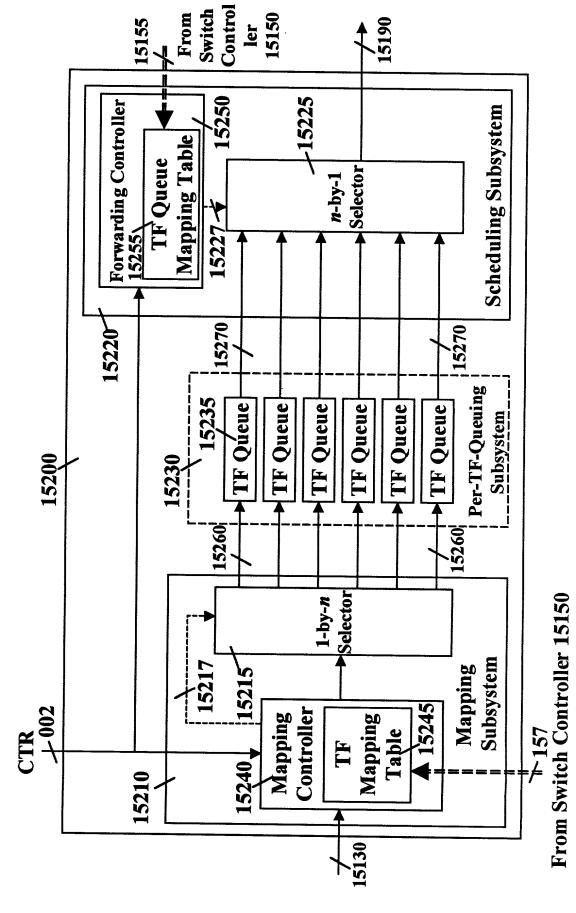
SHEEL 18 OF 44

\*PATENT APPLICATION\*



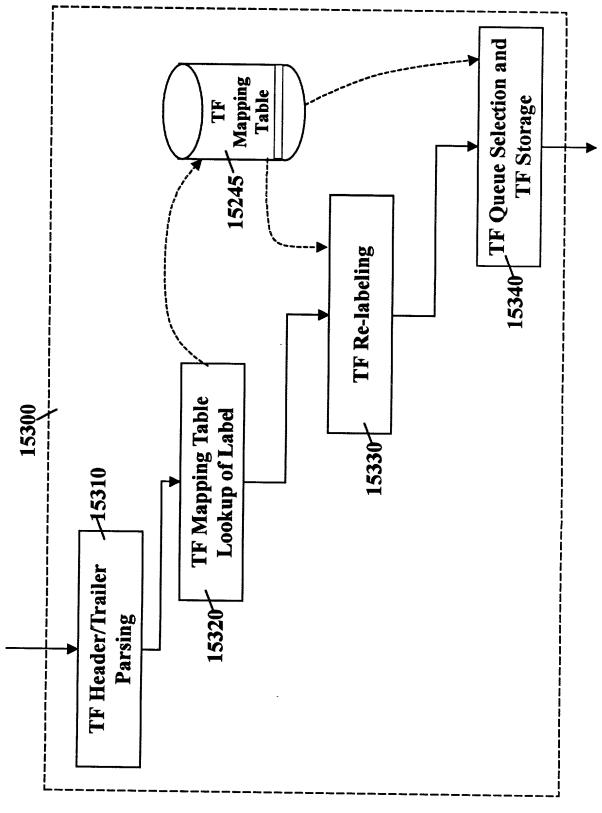
2HEEL 19 OF 44

\*PATENT APPLICATION\*

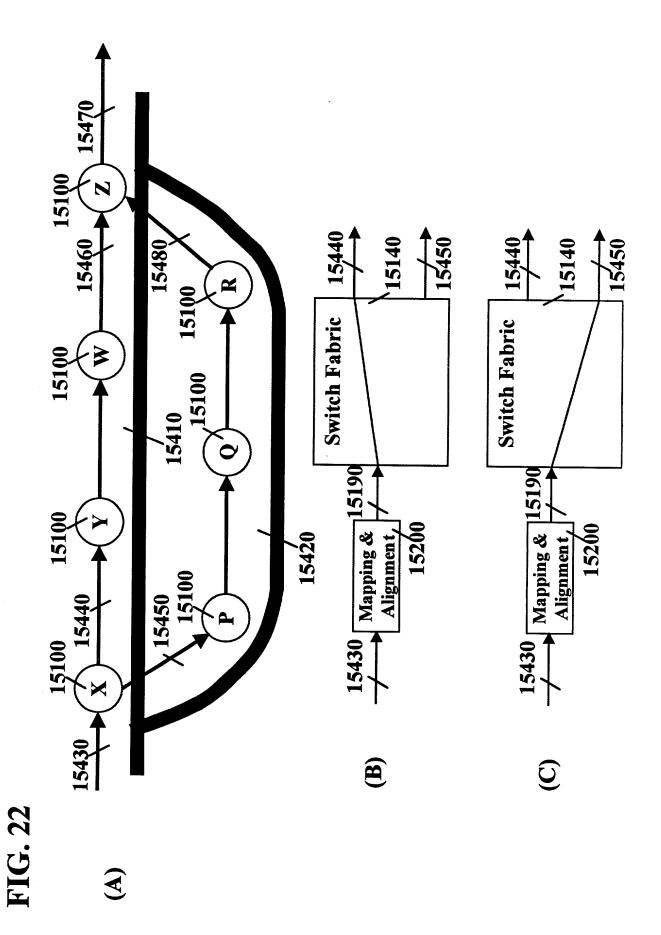


2HEEL 50 OE 44
VILOKNEK DOCKEL NO: 2KN 1181
OEEK EL VT'
\*BYLEAL VEHICYLION\*

TF Header/Trailer **Parsing** 



SHEET 21 OF 44 VLLORNEY DOCKET NO.: SYN 1781 OFEK ET AL. \*PATENT APPLICATION\*

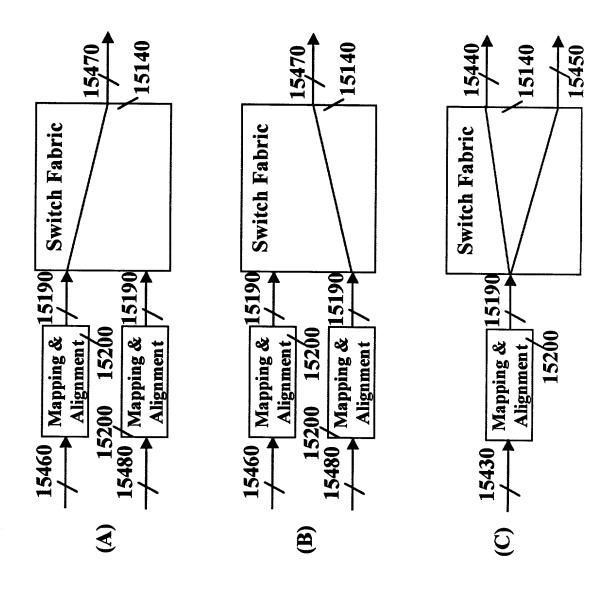


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\*PATENT APPLICATION\*

\*PATENT APPLICATION\*

FIG. 23



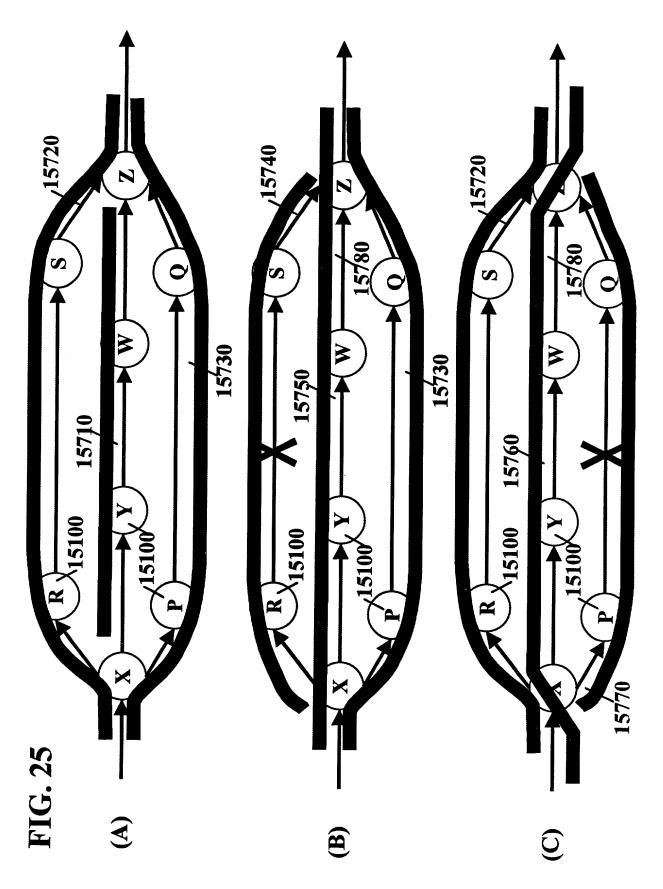
SHEEL 33 OF 44
OPEK ET AL.

\*PATENT APPLICATION\*

7 7 ~ 15100 15620 15610 15100

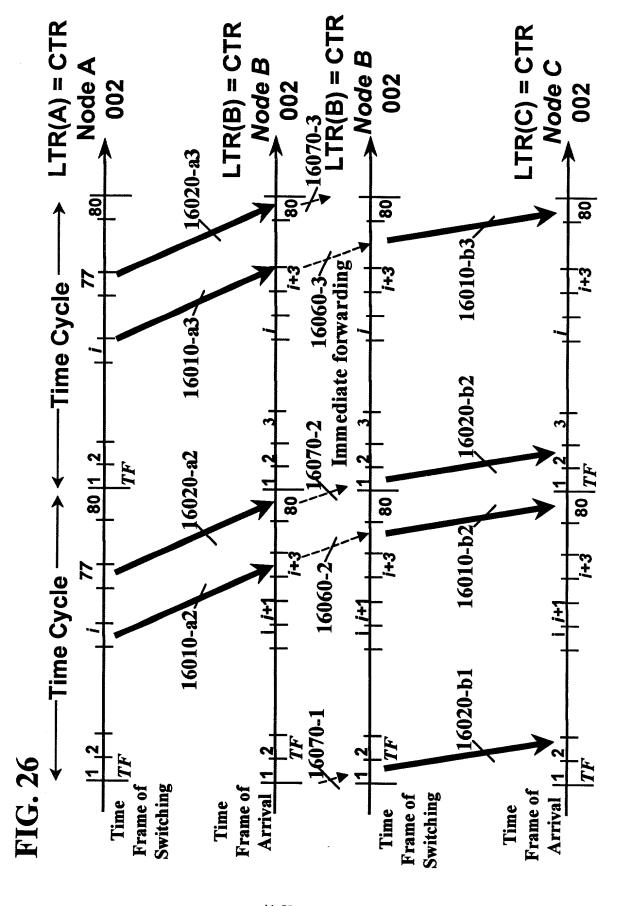
\*PATENT APPLICATION\*

\*PATENT APPLICATION\*



SHEEL S? OB 44

\*PATENT APPLICATION\*



\*\*PATENT APPLICATION\*\*

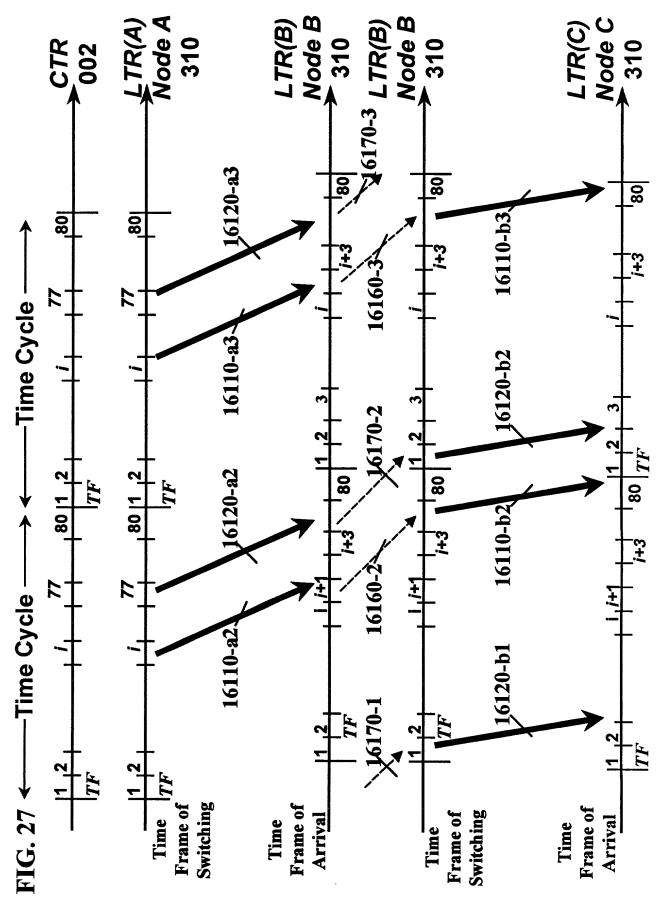
\*\*PATENT APPLICATION\*\*

\*\*PATENT APPLICATION\*\*

\*\*\*PATENT APPLICATION\*\*

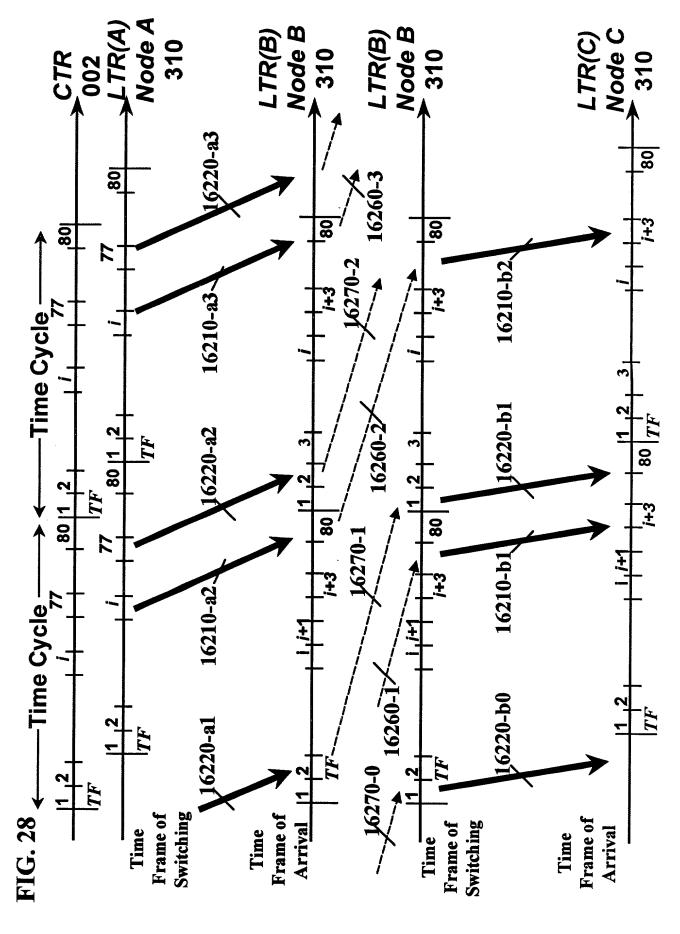
\*\*\*PATENT APPLICATION\*\*

\*\*\*PATENT APPLICATION\*\*

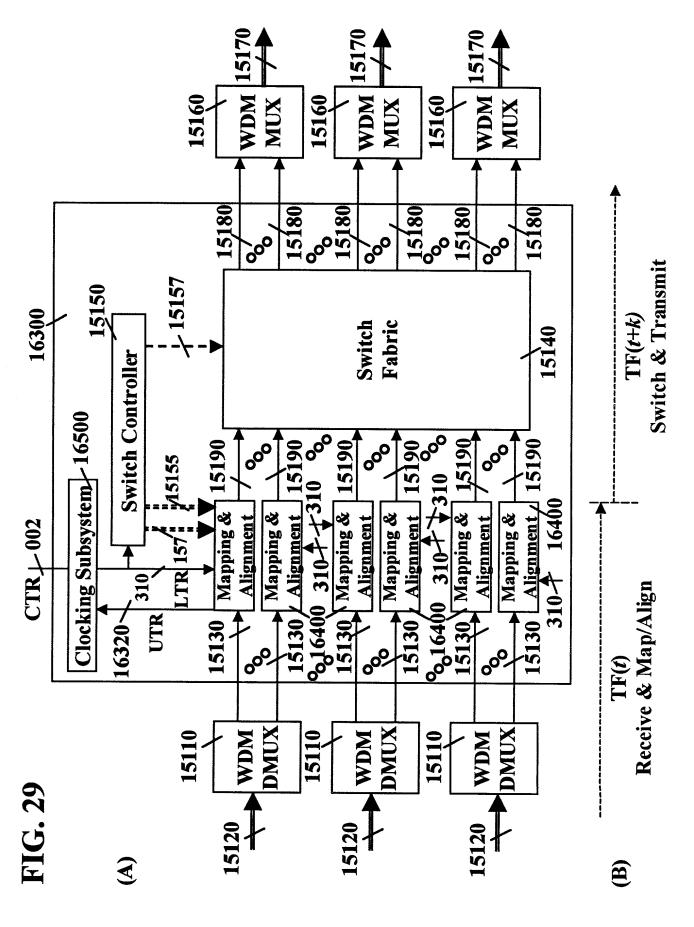


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\*PATENT APPLICATION\*



2HEEL 78 OE 44
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\*PATEUT APPLICATION\*
OPEK ET AL.
OPEK ET AL.

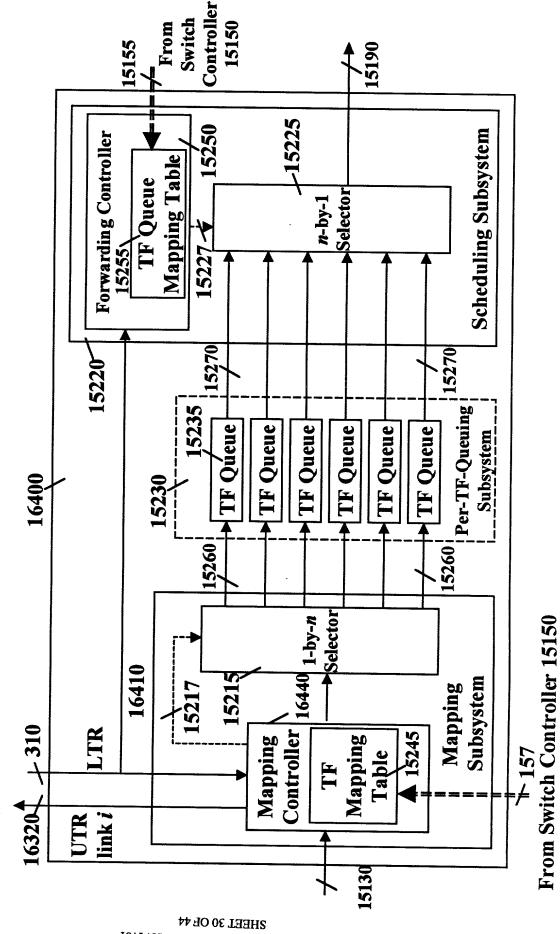
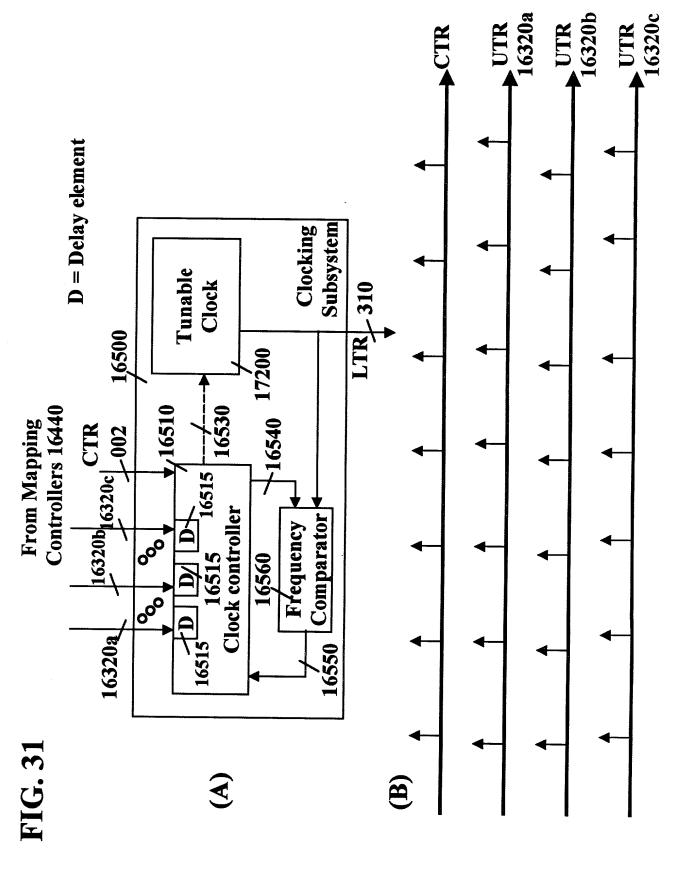


FIG. 30

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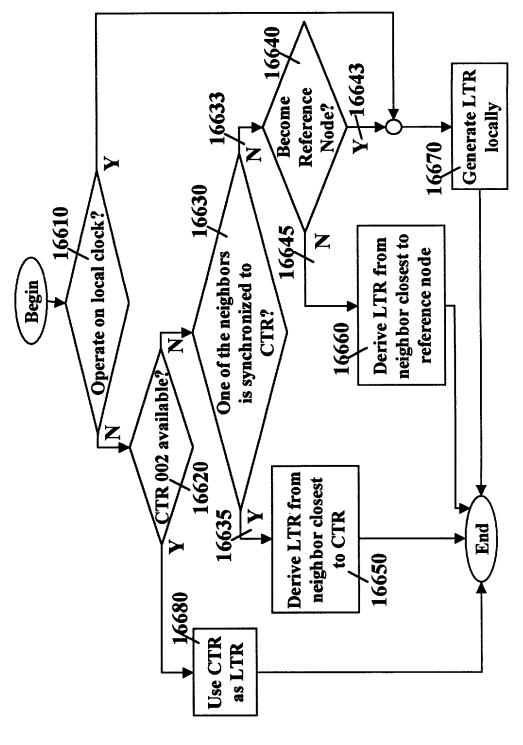
\*PATENT APPLICATION\*



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FIG. 32

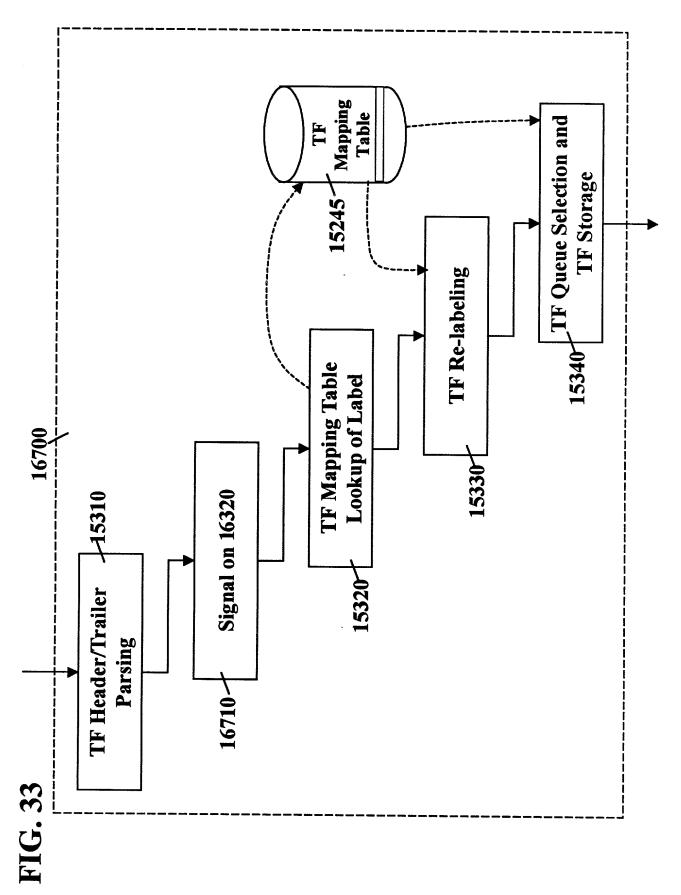


\*PATEUT APPLICATION\*

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OFEK ET AL.

\*PATEUT APPLICATION\*



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OFEK ET AL.

\*PATENT APPLICATION\*

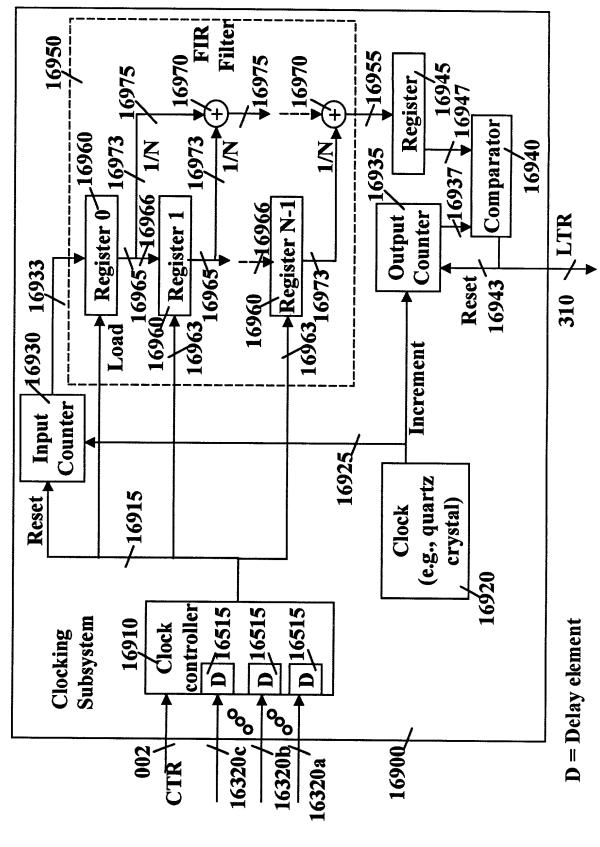
	Memory req.	# TF queues Memory req. Clock accuracy Stratum	Stratum	- [	oler	Tolerance
ľΥΩ	[Kbytes]			۵	I	Σ
Ť	195	1.00E-10	-	7	16	27
	195	1.60E-08	2	0	↽	6
-	195	4.60E-06	င	0	0	0
	195	3.20E-05	4	0	0	0
7	,953	1.60E-08	2	0	13	7
_	1,953	4.60E-06	3	0	0	7
Ì	1,953	3.20E-05	4	0	0	0
	9,766	1.60E-08	2	2	19	98
	9,766	4.60E-06	ဇ	0	0	4
	9,766	3.20E-05	4	0	0	7
	391	1.00E-10	1	15	ω	55
or the second second	391	1.60E-08	2	0	7	18
	391	4.60E-06	က	0	0	0
	391	3.20E-05	4	0	0	0
	3,906	1.60E-08	2	-	7	43
	3,906	4.60E-06	က	0	0	ည
	3,906	3.20E-05	4	0	0	0
	19,531	1.60E-08	7	S	15	13
www.veowowc.wo	19,531	4.60E-06	က	0	0	28
	19,531	3.20E-05	4	0	0	4
****	195	1.00E-10	-	30	17	50
	195	1.60E-08	2	0	4	36
	195	4.60E-06	3	0	0	0
***************************************	195	3.20E-05	4	0	0	0
	1,953	1.60E-08	2	7	သ	26
	1,953	4.60E-06	3	Ö	0	=
	1,953	3.20E-05	4	0	0	_
***************************************	9,766	1.60E-08	2	7	ဝ	27
	9,766	4.60E-06	က	0	0	56 26
	9,766	3.20E-05	4	0	0	8

SHEEL 34 OF 44

\*PATENT APPLICATION\*

\*PATENT APPLICATION\*

FIG. 35

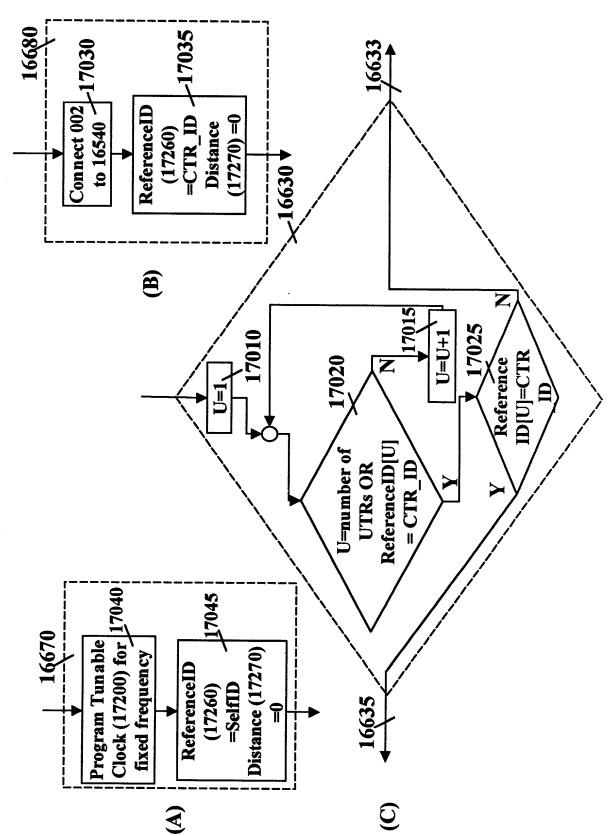


\*PATENT APPLICATION\*

OPEK ET AL.

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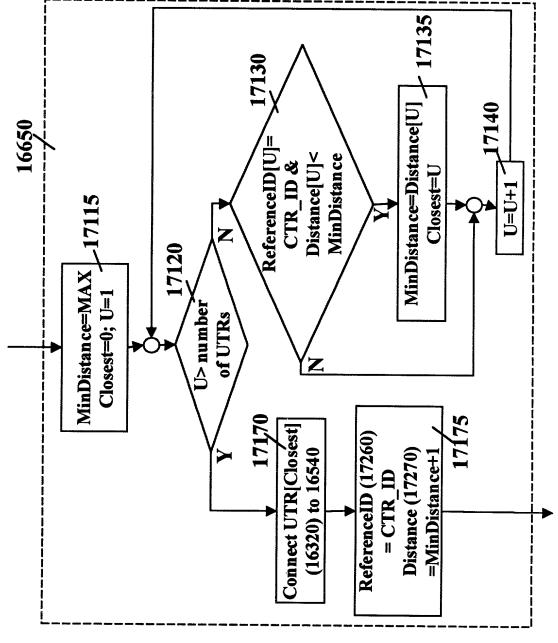
FIG. 36



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\*PATENT APPLICATION\*

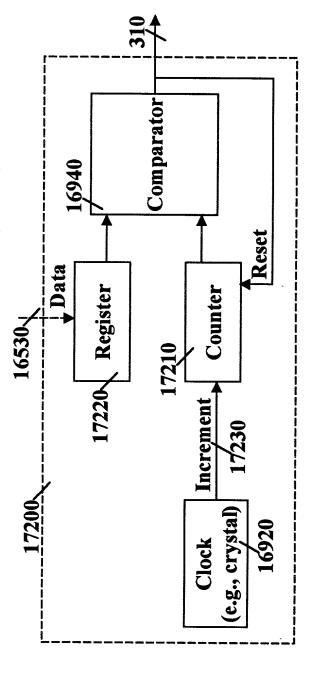
FIG. 37

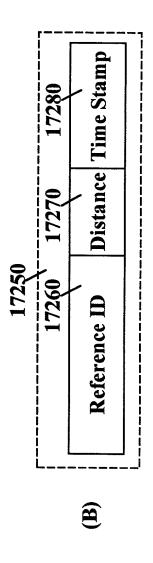


SHEEL 31 OF 44

\*PATENT APPLICATION\*

FIG. 38





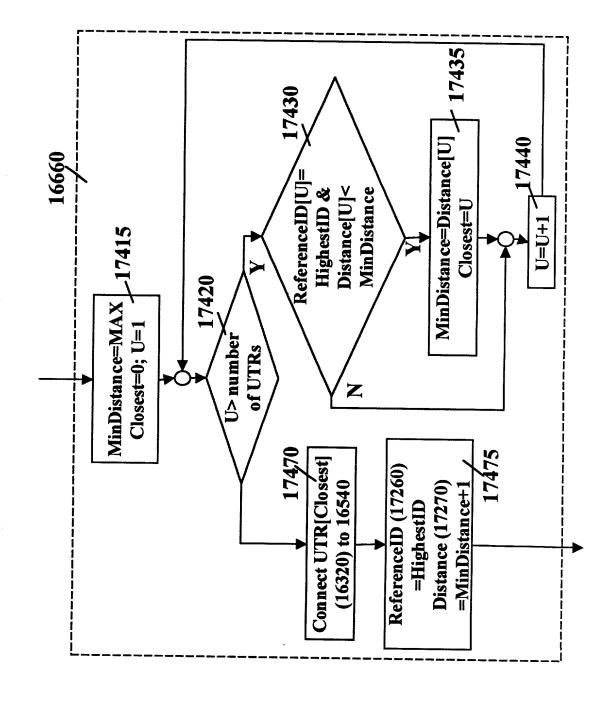
\*PATENT APPLICATION\*

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\*PATENT APPLICATION\*

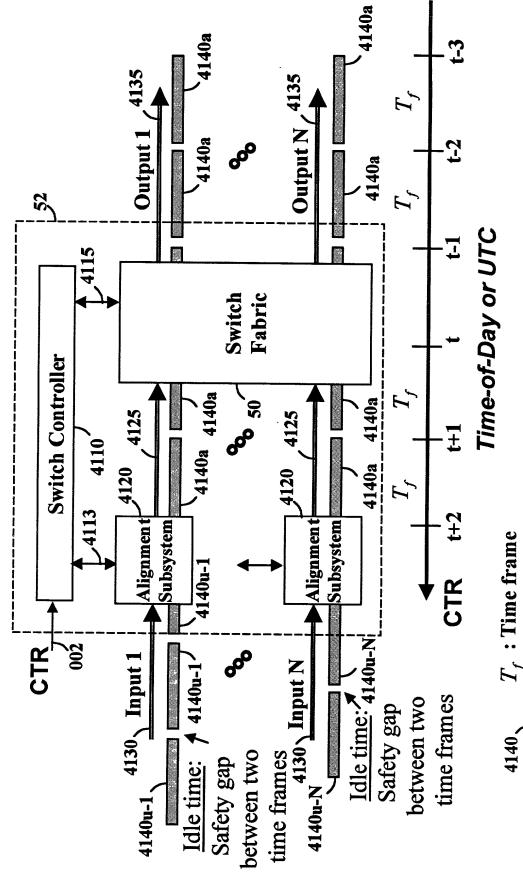


\*PATENT APPLICATION\*

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OPEK ET AL.

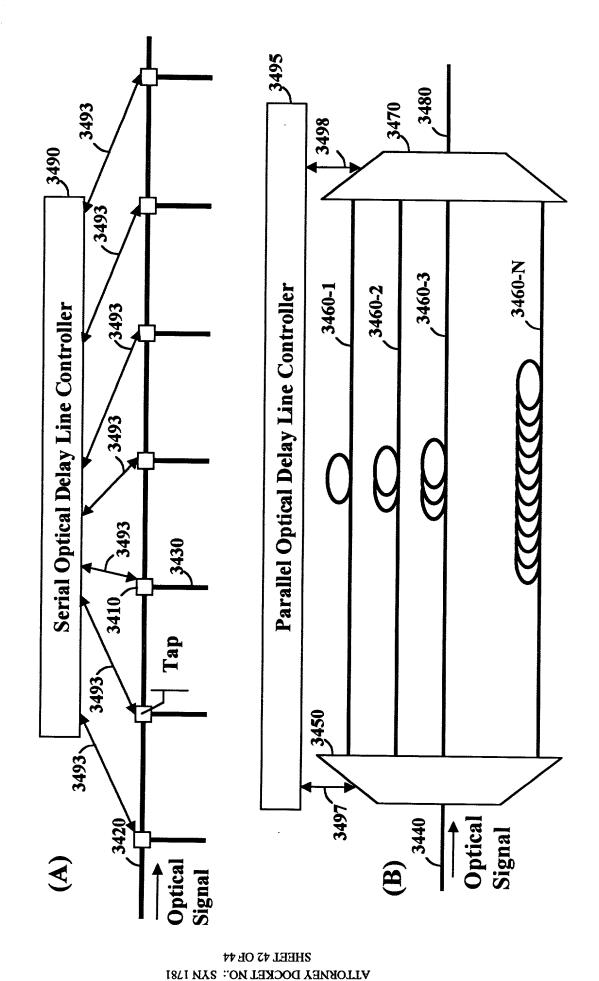
\*PATENT APPLICATION\*



: Time frame payload - with a predefined number of data units

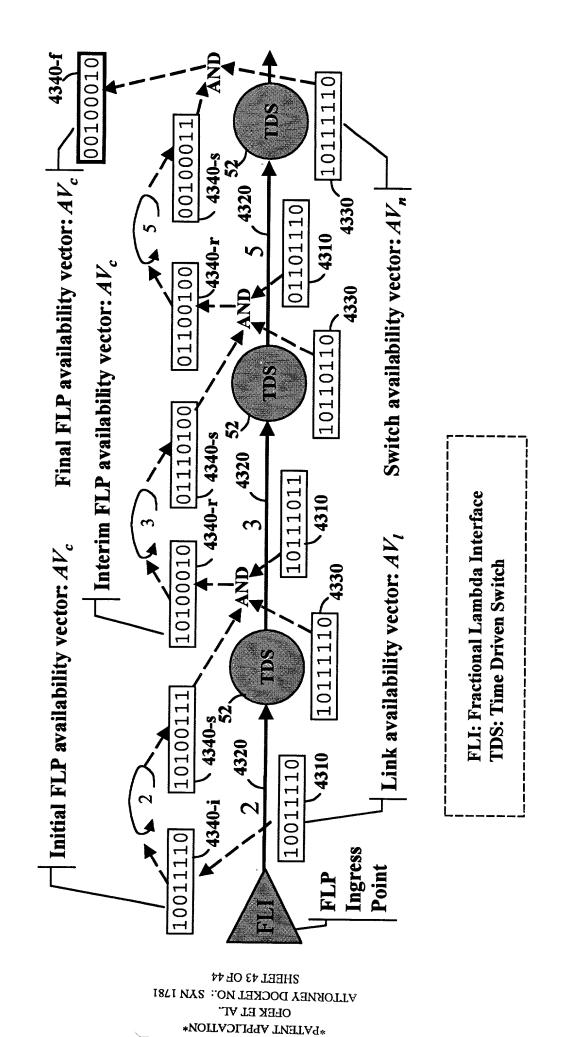
2HEEL 41 OE 44
OLEK EL VI''
OLEK EL VI''
SVN 1781

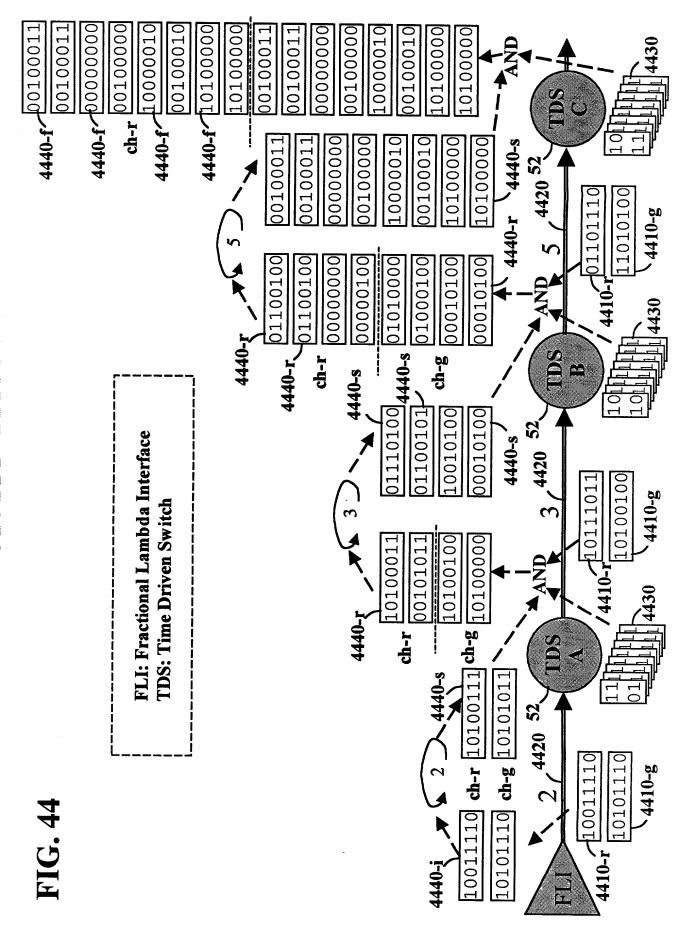
FIG. 42



OEEK EL VI' \*bVLENL VbbI'ICVLION\*

FIG. 43





\*PATENT APPLICATION\*

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\*PATENT APPLICATION\*